

**In the Abstract:**

*Following the claims, please add the abstract as follows:*

**--Abstract of the Disclosure**

The invention relates to methods for scheduling at least one out of  $K$  transmission channels  $k$  with respective  $N_{t,k}$  transmission interfaces and respective  $N_{r,k}$  reception interfaces for the transmission of data symbols that are matrix or vector modulated, the method comprising calculating a respective Channel Quality Indicator (CQI)  $q_k$  for at least one of the  $K$  transmission channels, and scheduling at least one of the  $K$  transmission channels for the transmission of the matrix or vector modulated data symbols, wherein the scheduling is at least partially based on the calculated CQIs  $q_k$ . The invention further relates to devices, transmitting stations, wireless communication systems, computer programs and computer program products.

For publication: Fig. 8--